TOGETHER, WE ENHANCE EXPERIENCE & EMPOWER PEOPLE THE CULTURE OF HEALING

GBBN

EXCEPTIONAL **EXPERIENCE STARTS WITH** EXCEPTIONAL **DESIGN**

Patients choose doctors, not buildings.

But when people walk through your doors, what they experience impacts how they feel when they're in your hands.

We do our best work with ambitious leaders in health, who want to design an experience that patients seek out over a lifetime; and one that attracts and retains the best talent. Together, we enhance the healing experience and the professional workplace; shorten the distance between medical breakthrough and patient bedside; and empower people with a sense of control, calm, and well-being when they are at their most vulnerable.

Positively affecting people, from your patients to your professionals, is the most important thing we do.























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AMBULATORY CARE



AMBULATORY CARE

We understand the importance of a cohesive experience—across multiple buildings and locations—with design that sets the stage for your values and distinctive brand.

We combine timeless design principles—such as access to daylight, intuitive wayfinding, and clear arrival hierarchies—with research and knowledge about the forces driving the future of healthcare delivery.

Our designs embrace operational efficiency, while providing ease of care and patient convenience; they're seamless, adaptable, and multidisciplinary. We understand the core patient experience cycle—arrival, orientation, transition—and integrate it throughout the entire patient journey, from their front door to yours.

HIGHLIGHTED PROJECTS









135,000 SF **UofL Novak Center Pediatric MOB** Louisville, Ky

Exterior Lead Design

& Medical Planning

Collaborated with EYP

174,000 SF



Allegheny Health Network Westmoreland MOB Pittsburgh, Pa Full Architectural Services 23,300 SF





UC Health Prototype MOB Varied Locations (3) Full Architectural Services 4,900 SF/ea







Mercy Health Mason Montgomery Cincinnati, Oh Full Architectural Services 55,000 SF



AMBULATORY EXPERIENCE

UC Health Physicians

- Over 35 Outpatient Clinics
- I induer Center of HOPF Accelerator

Cincinnati Children's

• Over 35 Outpatient Clinics

The Christ Hospital Health Network

- Green Township Outpatient Center
- Montgomery Surgery Center
- Montgomery Outpatient Center
- Liberty Township Outpatient Center**
- Green Township Bldg II Site Planning
- Ft. Mitchell Outpatient Campus Study

Mercy Health

- Rookwood Medical Center**
- Mason Montgomery MOB
- Mercy Health Bon Secours Outpatient Prototype Studies

The Urology Group

- Ambulatory Surgery Center
- The Urology Center

Allegheny Health Network

Westmoreland MOB

TriHealth

- Good Samaritan Hospital MOB
- Kenwood MOB
- Anderson MOB
- West Chester MOB
- Western Ridge MOB
- Anderson Surgery Center Exterior Design
- Thomas Comprehensive Care
- Liberty Township MOB
- Butler County MOB

UC Health Physicians

- Florence MOB
- Midtown MOB
- Primary Care Prototype
- University Pointe

Miller Valentine Group

Precision Radiotherapy

Wellington Orthopedics & Sport Medicine

Anderson Mayfield Clinic & Spine Institute

Red Bank Surgery Center

St. Elizabeth Healthcare

- North Unit MOB
- MOB III

Kings Daughter Medical Center

Grayson MOB

University of Louisville Physicians

Novak Center**

Bugshan Investment

Saudi Arabia Clinics & Day Surgery

Norton Healthcare

MOB Studies

PUBLICATIONS & PRESENTATIONS





The Future of Ambulatory Care Cleveland Clinic Patient Experience Summit, 2016 » Jason Groneck with Dwinelva Zachary

Order up! What Retail can Teach us about Designing Environments of Choice AIA Ohio, 2016 » Marcene Kinney & Angela Mazzi

A NEW BRAND OF CONSUMERS

Loth Healthcare Symposium, 2016 » Angela Mazzi

Salutogenisis in Design

BGSU AIA Spring Lecture, 2016 » Angela Mazzi

5 Design Ideas for Healthcare Waiting Rooms

Healthcare Design Magazine, 2016 » Steph Shroyer

**Collaborated with additional firm

TriHealth Kenwood MOB Case Study

NAIOP Chapter, 2016 » Ted Huster

From Car to Exam: Ideas for Simplifying the The Visitor Experience

Healthcare Symposium, 2016 » Michael Lied, Erin Schmidt, Anne Schwab

Waiting Room Trends

Healthcare Symposium, 2015 » Steph Shroyer, Marcene Kinney, Michael Lied

Waiting Rooms: How to Design to Impress

Healthcare Design (HCD), 2016 » Steph Shroyer, Amy Mees, Michael Lied





EMERGENCY DEPARTMENT (ED)

When patients leave an ER without being seen, something isn't working. Emergency department volumes fluctuate. Planning for those fluctuations means more patients can get timely treatment. We help you balance the volume highs and lows so you can get the most out of your space and ensure staff has the resources and supplies it needs, when it needs them.

Safety, security, quality, supply chain, flow, and a dignified patient experience all contribute to the efficiency and opitmization of EDs. We bring these elements together at every scale—from 10 bed EDs in community hospitals, to stand alone EDs in busy urban environments, to multiple ED units within healthcare systems.



Post ED renovation, Hardin Memorial reduced LWOBS from 5.3% to 2.1%

HIGHLIGHTED PROJECTS



UPMC Mercy Emergency Dept. Pittsburgh, Pa Full Architectural Services 24,000 SF Renovation



Cincinnati Children's Emergency Dept. Cincinnati, Oh Full Architectural Services 24,385 SF Renovation





Mercy Health Rookwood Free Standing Emergency Dept.

Cincinnati, Oh Architect of Record 25,000 SF *Collaborated with AECOM*

Hardin Memorial Emergency Dept.

Louisville, Ky Design Architect 25,000 SF Renovation *Collaborated with JRA*



ED EXPERIENCE

UPMC Mercy ED Renovation & Expansion

Magee-Womens Hospital of UPMC ED Renovation and Addition

McCullough Hyde Memorial Hospital ED Expansion Study

Hardin Memorial Hospital ED Renovation & Expansion

Children's Hospital of Pittsburgh ED Expansion

UK HealthCare

- Patient Care Facility ED**
- Pediatric ED**

The Christ Hospital Health Network **FD** Renovation

St. Claire Regional Medical Center ED Renovation

Mercy Health** Rookwood Free Standing ED

Cincinnati Children's ED Renovation

Cleveland Clinic - Hillcrest Hospital* ED & Pediatric ED Renovation & Expansion

Cleveland Clinic - Euclid Hospital* ED Expansion & Renovation

Cleveland Clinic - Twinsburg* FD

Mercy Health Fairfield Hospital ED Level II Trauma Center

TriHealth Good Samaritan ED Renovation Bethesda North ED Registration & Triage Liberty Urgent Care

St. Elizabeth Healthcare Grant ED Expansion

ED PUBLICATIONS & PRESENTATIONS



ED Design Consideration - Two Different Approaches to Workflow Healthcare Facilities. 2017 » Benjamin Earls

UPMC ED Case Study: ED Design: A Practical Guide to Planning for the Future, 2016 » Angela Mazzi The editor of this book chose to feature our project as a case study as exemplary planning and design of their emergency department.

Healthcare's New Normal:

Employing Cognitive Research to Create Patient-Centered Solutions ASHE PDC Conference, 2016 » Angela Mazzi

Angela's presentation focuses on salutogenesis and other cognitive research to provide evidence-based solutions that promote well-being. Part of the Through the Patient's Eyes Series.

Emergency Department Design Trends

Health Facilities Management, Magazine: 2015 » Angela Mazzi

There's no shortage of ideas to solve the puzzle of emergency department bottlenecks. This article explores everything from fast-tracks to results waiting and lets you know what works, what doesn't, and why.

High Volume Healthcare as a Livable **Environment:** Strategies from the ED ACHA Online publication: 2014 » Angela Mazzi, Stephanie Shroyer , Jason Groneck

This paper recommends evidencebased strategies to improve the patient experience by promoting flow, quality of care, safety and security.



Evolution of the ED

AIA Academv of Architecture for Health, Academy Journal: 2012 » Angela Mazzi

Evolving a design concept takes time and careful attention

to detail. By focusing on a clear set of outcomes, applying both precedent and observation, a distinct and innovative design emerges.





NEONATAL INTENSIVE CARE UNITS (NICU)

Our NICU designs combine expertise and empathy. We understand the nature of the NICU's highly specialized care as well as the physical and emotional highs and lows that families and staff experience in this emotionally intense environment.

Controlling light, temperature, and noise around vulnerable premature babies is critical to their survival. Equally important is the balance of privacy and proximity: Rooms private enough for parents to stay close yet accessible enough for nurses to get there in a heartbeat.

Decibels and lighting degrees; patient rooms arrayed into manageable neighborhoods for staff coverage; family support and respite spaces, intuitive wayfinding, and security considerations all come into play in the NICU environment.

HIGHLIGHTED EXPERIENCE





Cincinnati, Oh Medical Planning & Full Architectural Services 28,000 SF Renovation



NICU Lexington, Ky Medical Planning & AOR 39,000 SF Renovation Collaborated with HGA Archtiects, Inc.





TriHealth Good Samaritan NICU

Cincinnati, Oh Medical Planning Full Architectural Services 28,000 SF Renovation



Children's Hospital of Philadelphia NICU Renovation

Philadelphia, Pa Programming, Design, CDs, CA 39,900 SF Renovation









INTENSIVE CARE



INTENSIVE CARE UNITS

An ICU—be it pediatric, coronary, or neurological—is a complex environment. More resources—from specialist physicians and nurses to medical equipment—need to come to the patient. Lighting and acoustics require careful consideration. Thanks to advances like portable ventilators, patients may spend less time in bed and more time moving about, often accompanied by family who want to remain by their loved one's side.

In addition to its medical complexity, an ICU is an intense and emotional atmosphere. Respite spaces—where staff and families can find a moment of relief from a stressful envionment—create breathing room that can enhance the healing process.

EXPERIENCE

ICU 7B Renovation

UK HealthCare Patient Care Facility ICUs**

TriHealth Good Samaritan Hospital ICU 7A Renovation

TriHealth Good Samaritan Hospital

TriHealth Good Samaritan Hospital Neuro ICU

TriHealth Good Samaritan Hospital Cardiac ICU

TriHealth Good Samaritan Hospital	Cincinnati Children's
NICU	NICU
UPMC Mercy	Cincinnati Children's
ICU Study	CICU
TriHealth Bethesda North Hospital	Cincinnati Children's
NICU	PICU
Mercy Health Fairfield Hospital	St. Elizabeth
NICU	SICU





SURGERY

Ensuring your operating rooms are flexible, efficient, and optimized impacts your bottom line. Getting ORs right is as critical as the surgeries performed within them.

We understand the complexity of surgical environments— the flows, the codes, the equipment, circulation, turnover, safety, and the technological advances impacting the future of surgery— and what it takes to get them right.

We deploy the right tools— such as full-size mock ups, close collaboration with surgical teams, and our established relationships with specialty consultants and equipment manufacturers— to design optimum spaces.

HIGHLIGHTED PROJECTS





The Urology Group

Surgery Center

Cincinnati, Oh





UK HealthCare Surgery Suite Lexington, Ky Full Architectural Services Collaborated with AECOM

Full Architectural Services





The Christ Hospital Health Network Liberty Surgery Center Cincinnati, Oh Lead Exterior Design AOR Interiors *Collaborated with HKS*

The Christ Hospital Montgomery Surgery Center Montgomery, Oh Full Architectural Services



EXPERIENCE

We have experience in the following surgery typologies

ORTHO HEART UROLOGY/GYNECOLOGY ENDOSCOPY CYSTOLOGY NEURO EAR, NOSE, THROAT EYE **C-SECTION** TRANSPLANT FETAL HYBRID

Cincinnati Children's Surgery, Master Plan & Implementation

Nationwide Children's Surgery Master Plan

The Christ Hospital Health Network Montgomery Surgery Center

The Christ Hospital Health Network** Liberty Surgery Center

The Christ Hospital Health Network Ft. Mitchell Surgery Center Study

The Christ Hospital Health Network Green Township Outpatient Center w/ Surgery

The Christ Hospital Health Network Redbank Surgery Center

UK HealthCare** Surgery Suite

St. Elizabeth Healthcare Surgery Renovations

The Urology Group Surgery Center

TriHealth **Over 10 Surgery Projects**

Mayfield Clinic & Spine Institute Surgery Center

Cleveland Clinic, Hillcrest Hospital* Surgery Center

Salem Community Hospital* Surgery Center

SURGERY PUBLICATIONS & PRESENTATIONS



Reworking the Healthcare Workspace

Healthcare Design Magazine, 2014 » Erin Schmidt, Angela Mazzi

A Look at the Future of Healthcare Design HealthTech Facilities Alliance and Council

» Angela Mazzi

A Place for Healing: The Crucial Role of Design in Healthcare

Healthcare Innovation by Design Webinar, 2012 » Angela Mazzi

Epicenter of Innovation: A discussion of global healthcare trends

AIA Ohio Convention, 2017 » John Blignaut, Angela Mazzi





CANCER CARE

Nearly 1 in 3 Americans will be diagnosed with cancer in their lifetime.* As treatment continues to advance, one thing never seems to change: A patient's feeling that they're defined by a diagnosis and controlled by cancer.

We enhance the healing process through consultation rooms, infusion spaces, and waiting areas that restore the spirit and renew energy. We craft workspaces that support the collaborative, multi-disciplinary nature of today's cancer treatment.

We believe space has the power to help everyone dealing with cancer feel more empowered and in control.

*Source: American Cancer Society

EXPERIENCE

The Christ Hospital Health Network Montgomery Cancer Center

Cincinnati Children's Cancer & Blood Disease Institute

McCullough Hyde Memorial Outpatient Oncology Center

UC Health Medical Center

- UC Barrett Cancer Clinic Renovation
- UC Barrett Cancer Center Master Plan

UC Health Physicians Precision Radiotherapy & Linear Accelerator Expansion

UK HealthCare Markey Cancer Center, Inpatient Floor Fitout

PUBLICATIONS/PRESENTATIONS



Tackling Staff Opt-Out & Burnout: Radical Workspace Antidotes ASHE PDC Summit, 2019 Melissa Dulisse, Angela Mazzi & Erin Schmidt



What does workspace have to do with it? Radical approaches to work & educational space Healthcare Design, 2018 Melissa Dulisse, Angela Mazzi & Erin Schmidt

TriHealth Cancer Institute

- Thomas Center
- Butler
- Western Ridge
- Kenwood

Renovation ⁻ Master Plan

University of Louisville

Novak Center Collaborated with EYP

St. Elizabeth Healthcare

Edgewood Cancer Care

Identifying the Positive

in Oncology Environments Healthcare Syposium, 2014 Angela Mazzi & Erin Schmidt

The Healing Power of Design: CCHMC Pet Center

AAH Journal, 2015 John Blignaut & Aaron Anderson





PLANNING

"At sixteen I had surgery on a collapsed lung. I remember being scared, but one detail has always stuck with me. The elevator we rode from the parking garage to the concourse opened to a blank wall with nothing but a closet. I wasn't sure where to go or what was next."

-Maggie, third year design student, University of Cincinnati

When space planning and medical planning take place in separate silos, so much can get lost in translation, like how to establish hierarchies that guide patient arrival, empower them with confidence, and reduce anxiety.

We integrate space and medical planning from the beginning because the final result—be it concourse, clinic, or campus—creates a better, more efficient experience for everyone.

HIGHLIGHTED PROJECTS



University of Louisville Health Novak Center Building Planning Louisville, Ky



TriHealth Medical Office Building Building Planning Kenwood, Oh



Cincinnati Children's Master Planning Cincinnati, Oh





UK HealthCare Health Patient Care Facility Building Planning Cincinnati, Oh







UPMC Master Planning Pittsburgh, Pa



EXPERIENCE

Strategic Planning

TriHealth Cancer System-wide Planning

Cincinnati Children's Critical Care Building

UK Healthcare Patient Care Facility Master Planning

Cincinnati Children's Main Campus

UPMC Mercy Master Plan

UPMC Presbyterian Hospital

Mercy Health Deerfield Healthcare Campus

TriHealth Thomas Comprehensive Care Medical Planning

UK HealthCare NICU

Cincinnati Children's Critical Care Building

Bugshan Investment Saudi Arabia Clinics & Day Surgery Ambulatory Center

Building Planning Cincinnati Children's

Arrival Renovation

UPMC Shadyside Bed Tower Renovation

The Urology Group New Surgery Center

TriHealth Group Health Multiple MOBs

The Christ Hospital Liberty Medical Center

University of Louisville Physicians Novak Center

PLANNING PUBLICATIONS & PRESENTATIONS



Communities Healthy by Design AIA Cincinnati Urban Design Salon, 2018 » Angela Mazzi

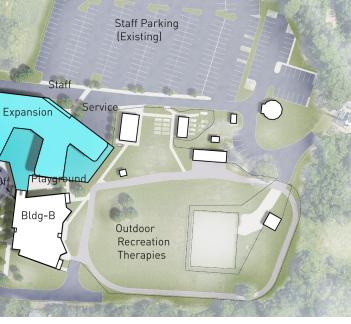
Preparing for the next 50 Years Healthcare Design, 2016 » John Blignaut, Jack Randall

From Car to Exam: Ideas for Simplifying the The Visitor Experience Healthcare Symposium, 2016 » Michael Lied, Erin Schmidt, Anne Schwab

The Future of Ambulatory Care Cleveland Clinic Patient Experience Summit » Jason Groneck



Home Sweet Home: The Health Hub of the Future SXSW (South By South West) 2016 » Angela Mazzi



What are hospitals doing to our cities? Healthcare Design » Michael Lied, Angela Mazzi

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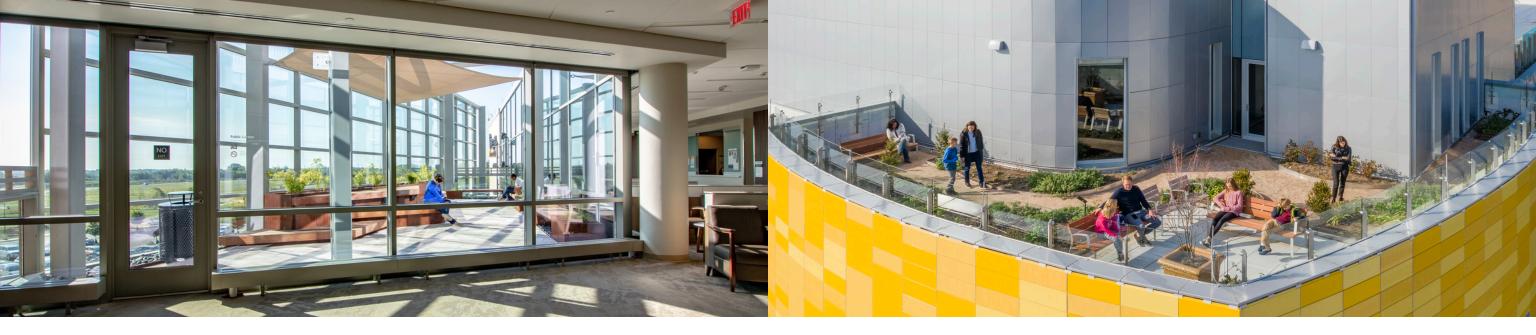
Creating a Facility Master Plan for Pediatric Long Term Care

Pediatric Complex Care Academy Journal: 2012 » Steve Kenat

Sick Cities: Is Design the Cure?

Design REALIZED Webinar, 2015 » Michael Lied, Angela Mazzi





HEALING GARDENS, GREEN SPACE, & RESPITE

Turnover of registered nurses costs a hospital between \$5.2M - \$8.1M annually; 50% of RN's have considered leaving nursing due to stress.*

Staff burnout is real. Respite moments can rejuvenate the spirit through light, color, and access to nature. A calm spot to pause or a place to briefly step away for some fresh air (that's mere steps from the unit) can address burnout and help retain top talent. Small moments— strategically placed— send a powerful message to employees: You are valued.

We believe so strongly in the importance of respite spaces that we have donated the funds for their creation at both TriHealth and The Christ Hospital Health Network.

*Source: Advisory Board

HIGHLIGHTED PROJECTS









The Christ Hospital Liberty Outpatient Center Respite Outdoor Areas Butler County, Oh Full Architectural Services



UK HealthCare Patient Care Facility Green Roof Lexington, Ky Full Architectural Services



Cincinnati Children's Family Pet Center Cincinnati, Oh Full Architectural Services



Mercy Fairfield Hospital Inpatient Unit Respite Spaces Fairfield, Oh Full Architectural Services



University of Louisville Physicians Novak Center Louisville, Ky Exterior Lead Design & Medical Planning Collaborated with EYP



EXPERIENCE

Cincinnati Children's Clinical Sciences Pavilion Courtyard, Rooftop Terrace, & Research Courtyard

Cincinnati Children's Family Resource Center & Garden

Cincinnati Children's Cancer & Blood Diseases Institute Lounges

Cincinnati Children's Location A Concourse

Cincinnati Children's Cafeteria University of Louisville Physicians Novak Center** Roof Gardens & Staff Break Spaces

University of Louiville Physicians Novak Center Novak Center Bridge

TriHealth Thomas Comprehensive Cancer Care Mary Jo Cropper Dressing Rooms

UPMC Presbyterian Hospital Lawn Oasis



LEARN & ADVANCE

Professionals accreditated in the following



Sample of Speaking Engagements

- AIA Ohio
- AIA Cincinnati
- South by Southwest
- ASHE PDC Summit
- TEDx

- Healthcare Design Conference
- Healthcare Symposium
- BD+C Accelerate Live
- LOTH Healthcare Symposium
- Cleveland Clinic Patient **Experience Summit**

Sample of Publication Contributions

- Healthcare Design
- IIDA Perspective
- Advisory Board **Design Showcase**
- American College of **Emergency Physicians**

Healthcare projects have been the recipient of NATIONAL, STATE & LOCAL DESIGN AWARDS BD+C INTERNATIONAL HEALTHCARE ARCHITECTS TOP 300 FIRMS LIST **OVER \$5 BILLION**

HEALTHCARE **CONSTRUCTION**

POSITIVELY AFFECTING **PEOPLE IS THE MOST IMPORTANT** THING WE DO

ENHANCE & EMPOWER

GBBN

